

Countering the Insider Threat

The right way and the wrong way.

September 25, 2003

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Background and Experience

100 information system security assessments 30 years attacking and protecting systems 20 years Navy SIGINT and INFOSEC 15 years security instructor 10 years commercial 5 years at NSA **Opinions RISK**

Questions:

- What is It?
- Who is It?

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How do I do about It?

Confidentiality

- Ensuring that the information is only available to authorized entities.
- Other words used are: "Secrecy", "Privacy", . . .

Integrity

- Ensuring that the information has not been changed.
- Other words used are: "Accuracy", "Authentic", "Correct",

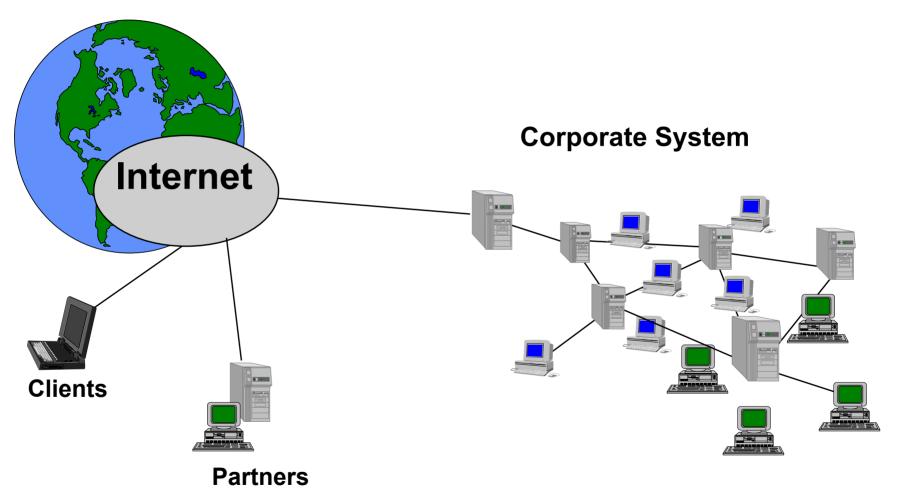
Authentication

- Proving that a user or system is what they claim to be.
- Other words are: "Identification", "Authorized", "One of the good people"...

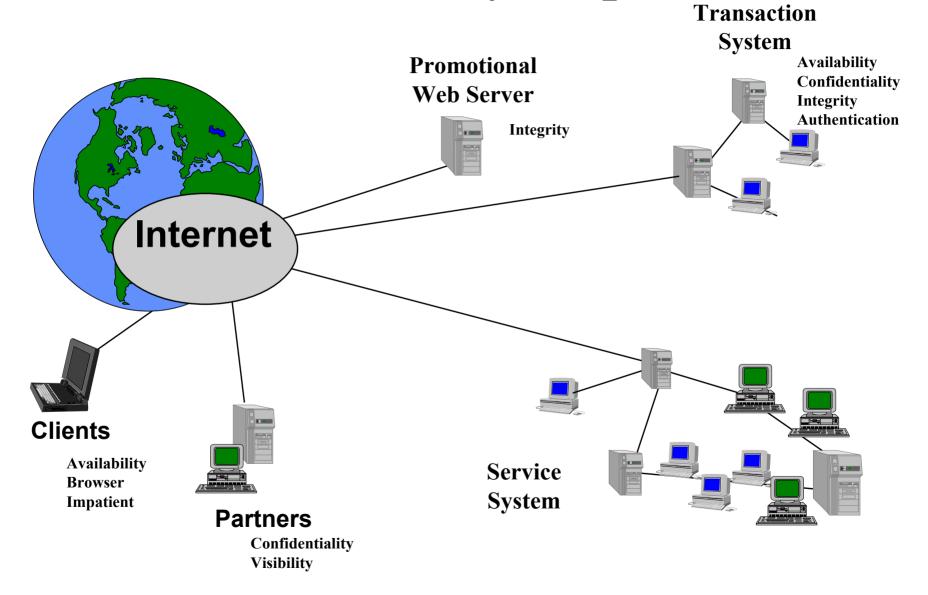
Non-Repudiation

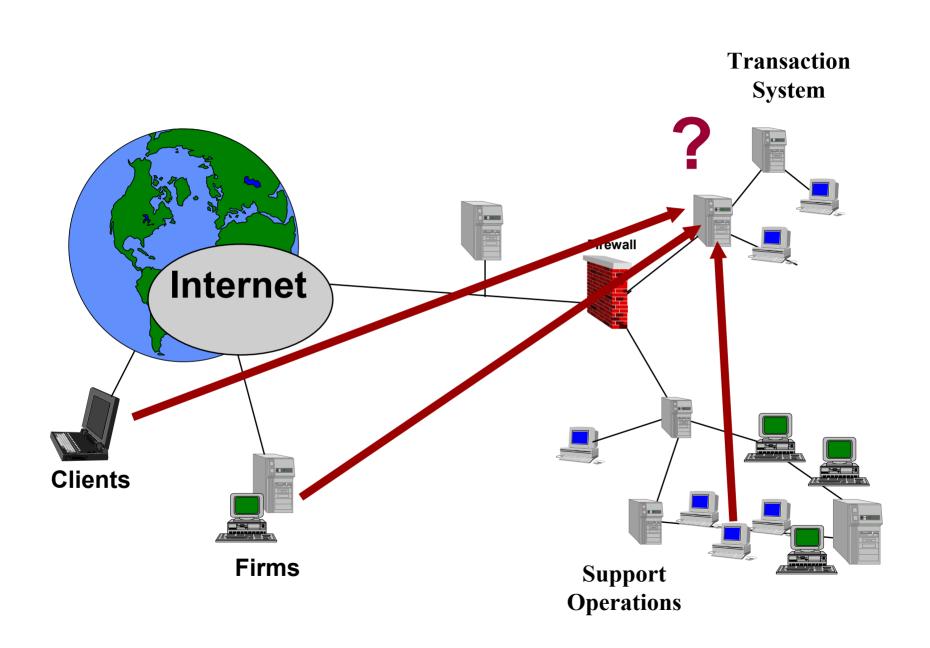
- The ability to prove that information was sent or received by a user or system.
- Other words are: "Signature approval", "Certified",

Typical Evolving Network



Business/Security Requirements



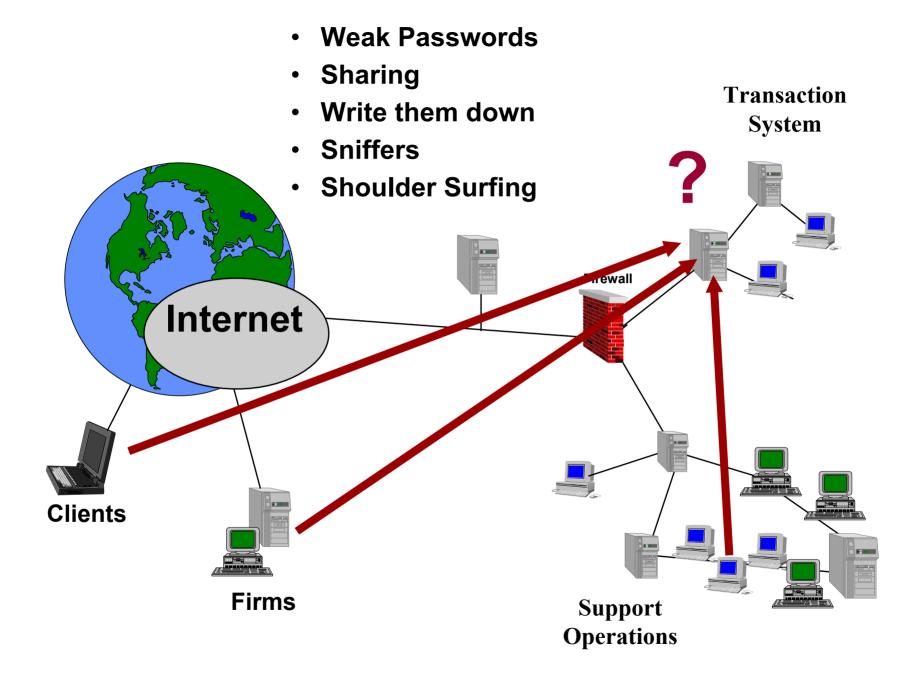


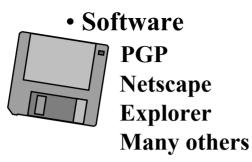
Configuration

- Defaults
- Passwords
- Backups
- Open Ports
- Filtering
- Logging
- CGI
- Unicode
- ISAPI
- IIS RDS

- NETBIOSv
- Null Sessions
- LM Hash
- RPC Services
- Sendmail
- Bind
- R Commands
- Remote Print LPD
- Sadmind and mountd
- Default SNMP Strings

From: http://www.sans.org/top20.htm, April 8, 2002







• PCMCIA Card



Authentication Solutions





Smart Cards





• Computer Chip
DataKey
Rainbow iKey







• ID Tokens RSA



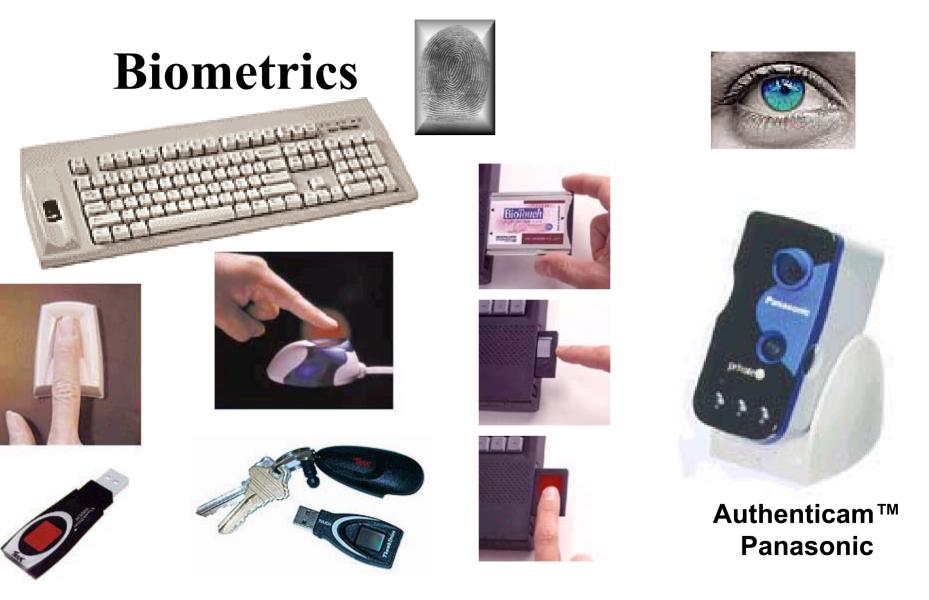




Secure Computing







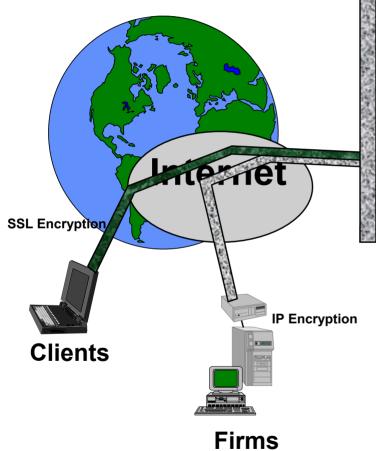
http://www.identix.com/itsecurity/products/index.html

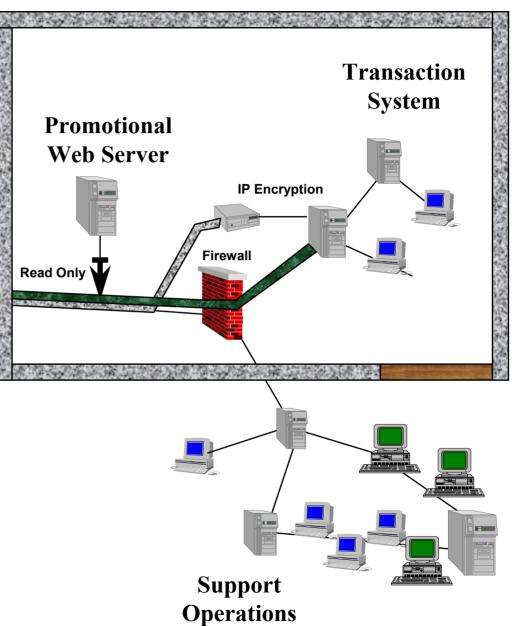
Physical Transaction System Promotional Web Server IP Encryption Firewall Read Only remet SSL Encryption **IP Encryption Clients Firms Support Operations**

Procedures

- Initial entry
 - Last name and first name
 - Change password on first login
- Departures
 - Delete account prior to departure, except.....
 - Audit Results
 - 60+% continued "first name" past anniversary date
 - Personal Experience
 - Forwarding email continued for months

Physical





Who is the Insider Threat?

- Senior Management
- IT Systems Managers
- Users
- Configuration
- Awareness
- Recovery



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